

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of: Paul Adams *et al.*

Group Art Unit: 3753

Application No.: 10/629,006

Examiner: Kevin L. Lee

Filed: July 29, 2003

Attorney Docket No.: BIC-016

For: **Fuel Cartridge with Connecting Valve**

**DECLARATION OF PAUL ADAMS UNDER 37 C.F.R. § 1.131**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

I, Paul Adams, having personal knowledge of the facts set forth herein, hereby declare and make the following statements:

1. I reside at 21 Perry Drive, Monroe, Connecticut 06468.
2. I received a Bachelor of Engineering Degree in Mechanical Engineering in 1987 from The City College of New York (C.U.N.Y.) and a Master of Science in Management Degree in 1998 from Rensselaer at Hartford (Rensselaer Polytechnic Institute)
3. I am a co-inventor of the invention disclosed in the above-referenced United States patent application no. 10/629,006 ("the '006 patent application"), which is known to me as the BIC-016 case.
4. I was employed by BIC USA, Inc., or a related company, are subsidiaries of SOCIÉTÉ BIC, from 1992 to 2005. My last position with BIC USA, Inc. was Director – Lighter R&D and Manufacturing - North America.
5. I am currently working as the Vice President of Research & Development for

Unger Marketing International.

6. I conceived the invention as claimed in the above-referenced '006 patent application on or about February 18-19, 2003, or earlier, as evidenced by Invention Disclosure Form ("IDF") No. 03-0013-78 (attached and marked as **Exhibit A**), which includes a set of handwritten drawings (Ex. A, pages 9-13).
7. On February 18, 2003, I sketched the first two handwritten drawings depicted on Ex. A, page 9 which are the predecessors of FIGS. 1(a)-1(c), at least, of the above-referenced '006 patent application.
8. On February 19, 2003, I sketched the third handwritten drawing depicted on Ex. A, page 9, which is the predecessor of FIGS. 2(a) and 2(b), at least, of the above-referenced patent application.
9. On March 15, 2003, I sketched the other handwritten drawings, depicted on Ex. A, pages 10-13, to provide greater detail of the initial drawings sketched on February 18, 2003 and on February 19, 2003.
10. On March 17, 2003, I completed IDF No. 03-0013-78 (as evident by my signature on Ex. A, page 6), which was sent by Federal Express on March 18, 2003 to BIC Corporation's patent attorney H.T. Than, Esq. (as evident by the letter on Ex. A., page 1), who read and understood IDF No. 03-0013-78 on March 19, 2003 (as evident by Mr. Than's signature on Ex. A, page 2).
11. On April 3, 2003, I received two e-mails (attached and marked as **Exhibit B**) from Mr. Than concerning selected patent references uncovered by a patentability search (attached and marked as **Exhibit C**) that he had previously commissioned.
12. On May 7, 2003, I received a first draft of the patent application, including informal drawings, from Mr. Than as evident by an e-mail sent from Mr. Than to me (attached and marked as **Exhibit D**).
13. Beginning on May 9, 2003, I sketched a series of additional handwritten drawings (attached and marked as **Exhibit E**) that further define embodiments of the invention. On or about May 9, 2003, I sketched the handwritten drawings that

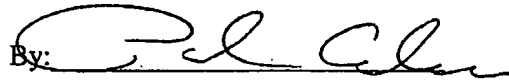
appear on pages 2 and 3 of Ex. E. On or about May 24, 2003, I sketched the handwritten drawings that appear on pages 4-7 of Ex. E. On or about May 25, 2003, I sketched the handwritten drawings that appear on pages 8-11 of Ex. E.

14. On June 9, 2003, I received a second draft of the patent application, including informal drawings, from Mr. Than as evident by an e-mail sent from Mr. Than to me (attached and marked as **Exhibit F**).
15. On June 30, 2003, I received a third draft of the patent application, including informal drawings, from Mr. Than as evident by an e-mail sent from Mr. Than to me (attached and marked as **Exhibit G**).
16. On July 25, 2003, I received a fourth draft of the patent application, from Mr. Than as evident by an e-mail sent from Mr. Than to me (attached and marked as **Exhibit H**). On the same day, I reviewed the fourth draft and instructed Mr. Than to file the application, as evident by an e-mail I sent to Mr. Than (attached and marked as **Exhibit I**), who then filed the application on July 29, 2003, as evident by the signed Utility Patent Application Transmittal (attached and marked as **Exhibit J**).
17. Additionally, independent from the preparation and drafting of the patent application, my group of engineers and designers at BIC also prepared detailed computer design of the valve, as evidenced by a set of engineering drawings (attached and marked as **Exhibit K**). One engineering drawing carries a date of 29-May-2003. (**Exhibit K**, page 3).
18. On or about June 17, 2003, another set of engineering drawings showing the opening and closing sequences of the valve was sent to Mr. Than, which became FIGS. 7(a)-(c) of the patent application. (**Exhibit L**).
19. On or about August 29, 2003, the engineers under my supervision ordered certain parts of the valve to be fabricated by a purchase order (attached and marked as **Exhibit M**), to the Hannes Precision Industry, Inc. to fabricate certain parts relating to the invention.

I declare further that all statements made herein of my own knowledge are true; that all

statements made herein on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Date: 28-SEP-2008

By:   
Paul Adams



**VIA FEDERAL EXPRESS**

March 18, 2003

H. T. Than, Esq.  
Sutton Executive Center  
3201 New Mexico Avenue, N.W., Suite 350  
Washington, D.C. 20016

Re: **New Patent Application, IDF No. 03-0013-78**  
**Direct Methanol Fuel Cell Shut-off Valve**

Dear H.T.:


Enclosed is a copy of the above referenced Invention Disclosure and related drawings.

As we discussed, kindly initiate a patentability investigation with respect to this technology.

I look forward to discussing the timeline on this investigation with you.

Very truly yours,

BIC CORPORATION

  
Cheryl A. DuBois  
Assistant General Counsel

CAD/haf

Enclosures



BK-016

Invention Disclosure Form ("IDF") NO. 03-0013-78  
(Number will be assigned by the Legal Department)

Prepare only an original copy and send it to the Legal Department immediately after completion. Inventor(s) and witnesses must date and sign disclosure, and initial each page. Your Department Manager must sign off before it is sent to the Legal Department.

The invention described herein has been conceived by the undersigned in the employment of BIC.

**I. TITLE OF INVENTION:** (A short phrase that highlights the important characteristics of the invention.)

DMFC Shut-off Valve

**II. NATURE OF THE INVENTION:** (If drawings are necessary, submit copy and refer to drawings in the description by numbers. If space provided below is not sufficient, attach additional sheet(s) as required.)

**A. Object Of The Invention:** (Problem solved by the invention. What it is intended to provide or accomplish.)

DMFC Shut-off Valve – A valve design to minimize the leakage of fuel at separation + manufacturability + reduce number of parts + can be used for pressurized or non-pressurized

**B. Advantages/Benefits Of The Invention:** (State how and to what extent the invention overcomes prior difficulties, e.g., lower cost, improved performance, etc.)

Minimal volume of fuel that can be released (leakage) during insertion/extraction.

Inventor's Initials: [Signature]

Witnesses' Initials: Read & understood by

for them 3-19-03

**C. Novel Features Of The Invention:** *(Manner in which the invention differs from prior approaches to the problem.)*

Reliable, very little volume created when mated (that could potentially leak or be released during un-mating and minimal number of parts. Same valve could be used for non-pressurized or pressurized DMFC designs. Can control which seals first by combining a stop on one side and then adjust spring forces to adjust how the valve seals to minimize volume (see bottom of page 4).

**D. Detailed Description Of The Invention:** *(State how, where and to what extent the invention will be used. Describe how it operates, how it achieves its advantages.)*

Series of different valve designs (see attached drawings). Drawings shown in unmated and mated conditions. Each side has one spring, one moving piece (pin), and most only have one seal

**E. Best Mode:** *(Identify and describe the most preferred way of carrying out the invention.)*

Best mode (pages 2 & 4) – Each side of valve only has one spring, one moving piece (pin), and one seal with minimal volume that can be released during un-mating to allow flow. In addition, bottom of page 2 shows pins with grooves to allow flow but minimize volume.

**F. Alternative Embodiments:**

Different combinations of seals and geometry of valves.

Inventor's Initials: \_\_\_\_\_

Witnesses' Initials: \_\_\_\_\_

**III. INFORMATION RELATING TO THE CONCEPTION OF THE INVENTION:**

**A. Date Of The Invention:** *(The earliest date or dates on which the essential features of the concept were first thought of.)*

18-Feb-03

**B. Date(s) Of First Disclosure(s) Of The Invention To Others And Identity Of Persons To Whom Disclosed:**

Mar-03

**C. Written Documents Showing The Initial Concept(s):** *(Specify date and location of documents, attach copies if convenient. List here the notebooks, reports and other sources containing the original entries upon which this Memorandum of Invention is based.)*

See attached drawings

**IV. INFORMATION RELATING TO REDUCTION TO PRACTICE**

**A. Date(s) On Which Steps Were Taken To Embody The Invention In Workable Form And A Brief Description Of The Steps Taken And Results Achieved:**

None as of yet

**B. Identity And Location Of The Documents Showing The Steps Taken In Connection With Reducing The Invention To Practice:**

\_\_\_\_\_

**C. Person(s) With Knowledge Of The Steps Taken To Reduce The Invention To Practice:**

\_\_\_\_\_

Inventor's Initials: \_\_\_\_\_

Witnesses' Initials: \_\_\_\_\_



**V. POSSIBLE PRIOR ART:** *(Related information known to you, whether patents, products or printed publication [e.g., journal articles, treatises and dissertations] that was publicly available prior to either the conception or reduction to practice of the invention and that is addressed to the same issues as the invention.)*  
BIC Lighter valve (sealing portion)

**VI. PUBLIC DISCLOSURE OF THE INVENTION:**

**Date And Brief Description Of Earliest Oral Or Written Presentations Describing The Invention Outside The Company:**

None

**VII. RIGHTS CLEARANCE**

**Name(s) Of Others Outside The Company With Whom You Collaborated Relating To Either The Conception Of The Invention Or Its Reduction To Practice:**

\_\_\_\_\_

**Inventor's Initials:**



**Witnesses' Initials:**





**Co-Inventor's****Name:**

---

*(Last Name)*

---

*(First Name)*

---

*(Middle Initial)***Citizen of:**

---

*(Country)***Residence:**

---

*(Number and Street)*

---

*(City or Town)*

---

*(State)*

---

*(Zip Code)***Signature of****Co-Inventor:**

---

*(Date)***Identify****Contribution:**

---

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**WITNESSES:**

I hereby attest that the above-described invention has been thoroughly explained to me and is fully understood by me.

**Signature of Witness:****Name of Witness:**

---

*(Printed Name)*

---

*(Date)*

I hereby attest that the above-described invention has been thoroughly explained to me and is fully understood by me.

**Signature of Witness:****Name of Witness:**

---

*(Printed Name)*

---

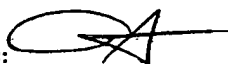
*(Date)*

All signers of this Invention Disclosure recognize that the contents are strictly confidential and must not be revealed in any way, except as specifically authorized by BIC.

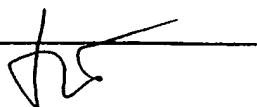
**Department Management's Initials:****Inventor's Initials:****Witnesses' Initials:**

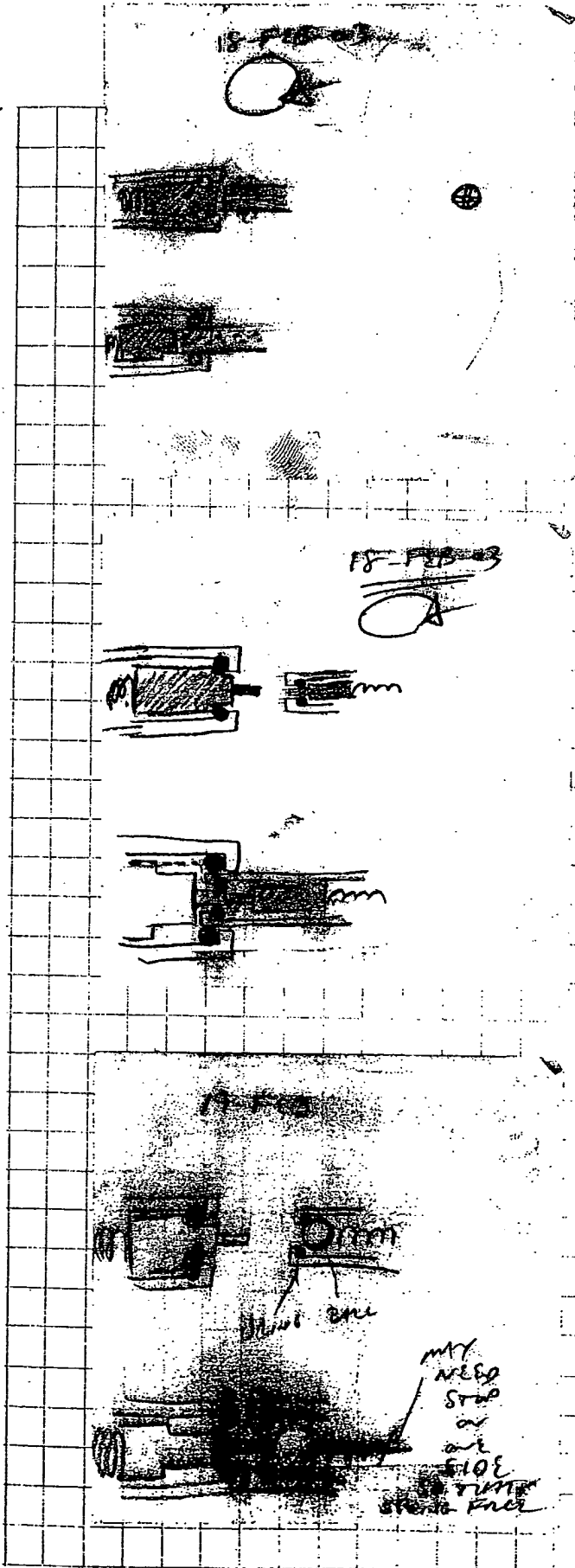
**Invention Disclosure - Additional Sheet**

Inventor's Initials:



Witnesses' Initials:

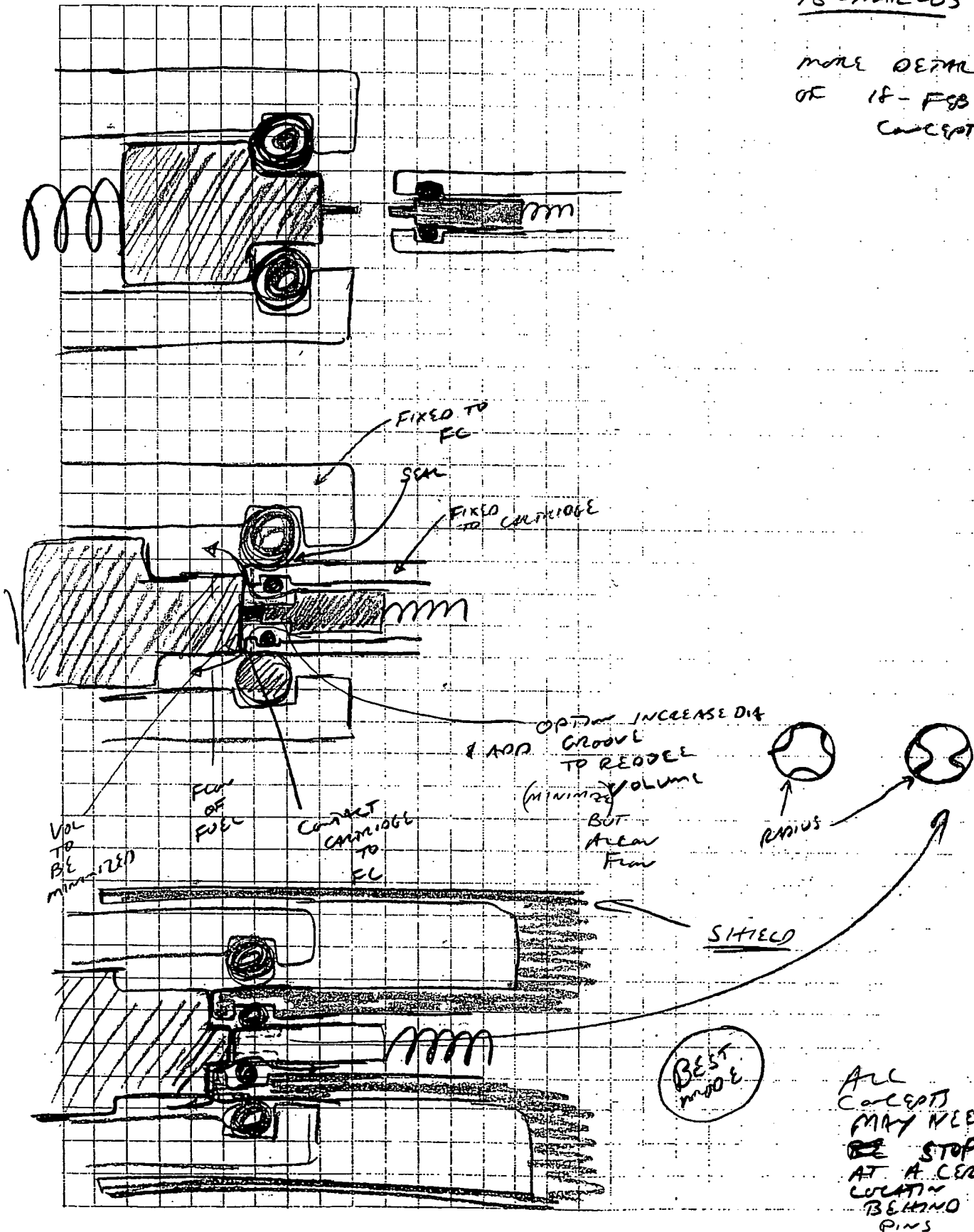






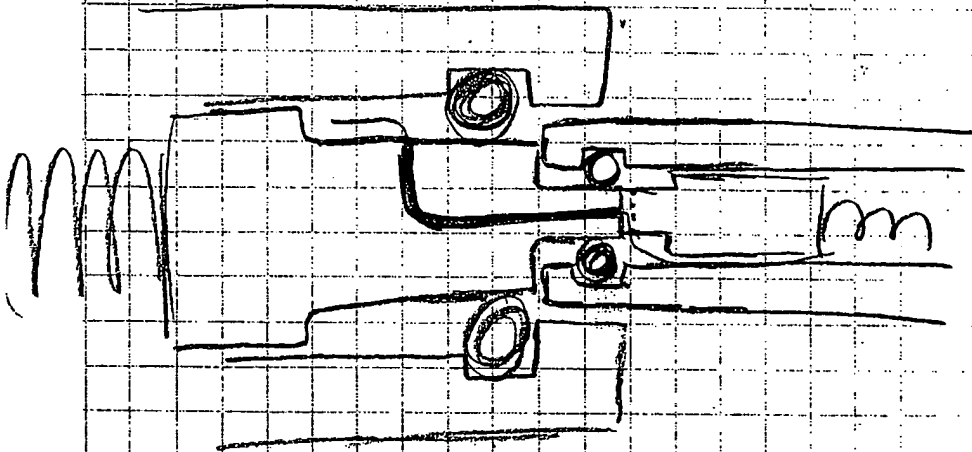
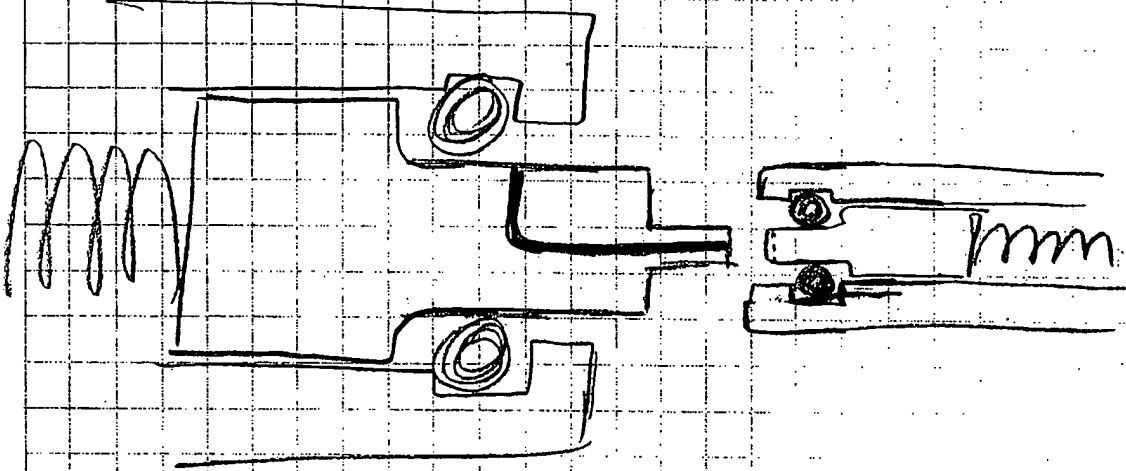
15-MAR-03

MORE DETAIL  
OF IF-FGB-03  
CONCEPT



15 MAR-03

MORE DETAIL  
OF 18-FEB-03



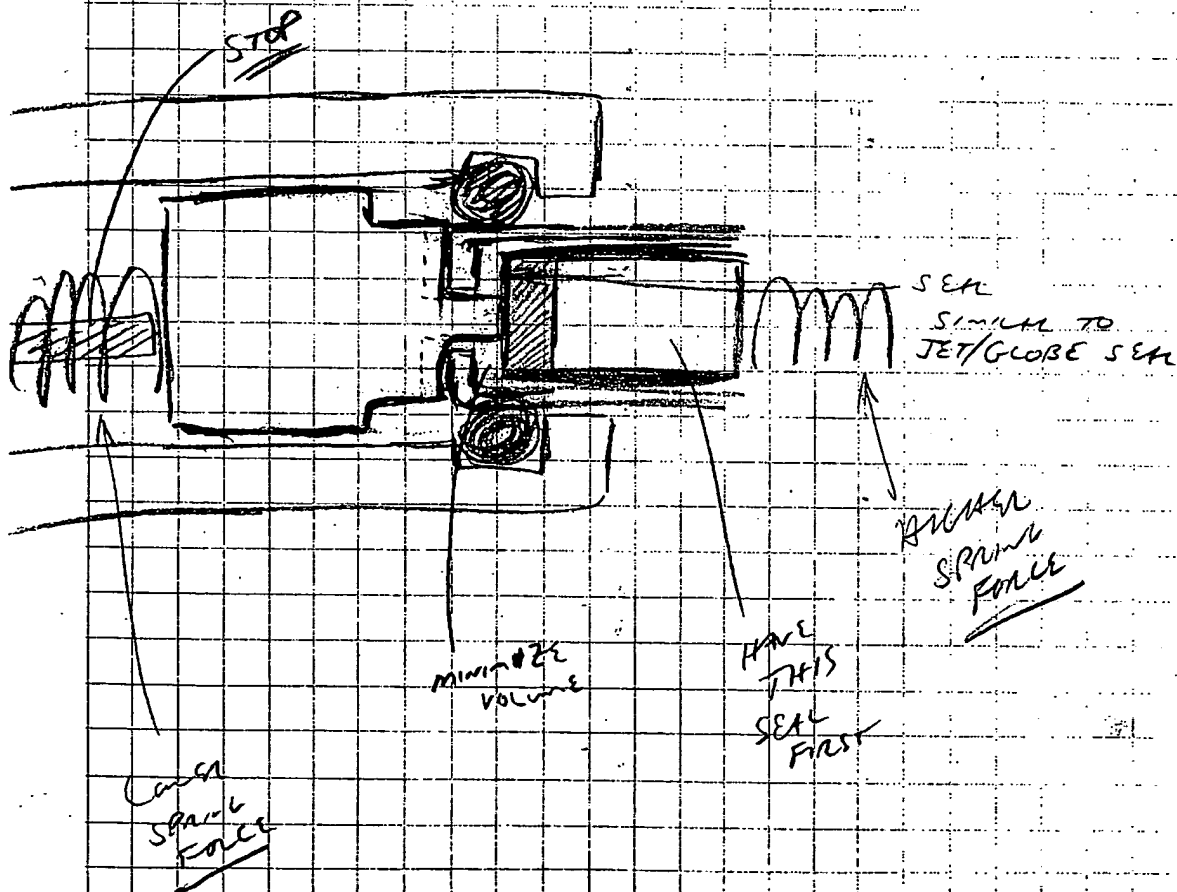
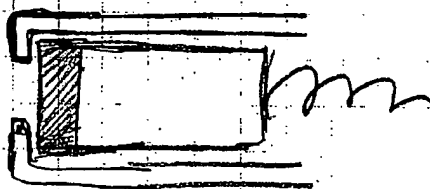
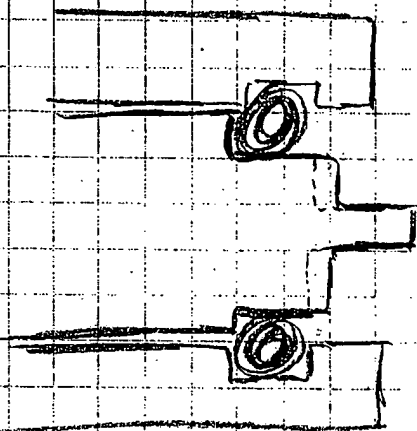
PREPARED  
1-02-03  
1-5-03

Q

15-MAR-03

BUILT FROM  
CONCEPTS  
ON

18-19 FEB-03





Q

15 - MAR - 03

BUILT FROM  
CONCEPTS ON  
18 & 19 - FEB - 03

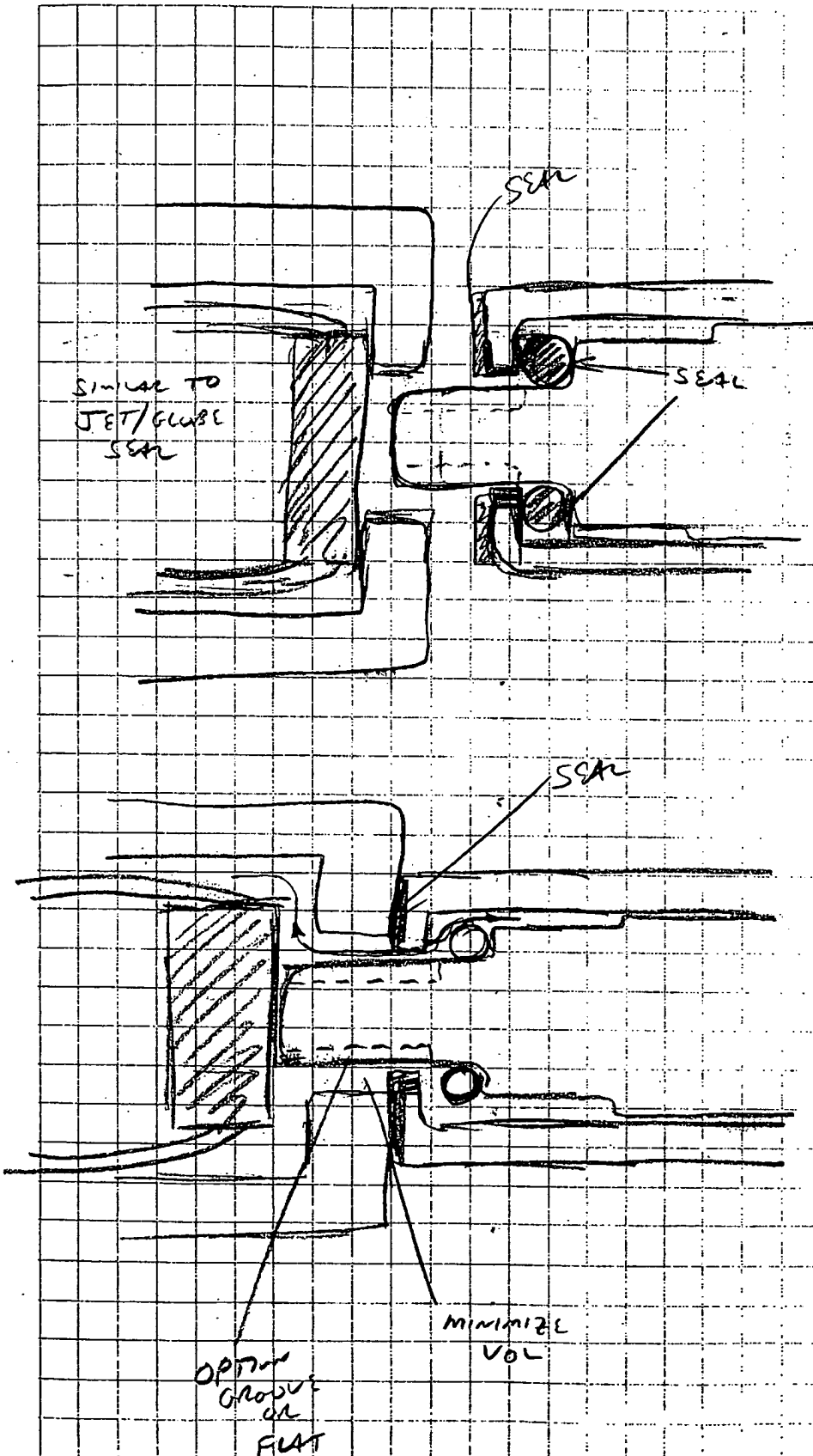


Exhibit B, Page 1

**H.T. Than**

---

**From:** "H.T. Than" <ht@htthan.com>  
**To:** "Paul Adams" <Paul.Adams@bicworld.com>  
**Cc:** "Cheryl Dubois" <Cheryl.Dubois@bicworld.com>  
**Sent:** Thursday, April 03, 2003 8:55 PM  
**Attach:** REDACTED  
**Subject:** BIC-016 Shut-off valve

Hi Paul,

Further to your phone conversation, I am attaching herewith selected patent references uncovered by our prior art search.

REDACTED

Exhibit B, Page 2

**H.T. Than**

---

**From:** "H.T. Than" <ht@htthan.com>  
**To:** "Paul Adams" <Paul.Adams@bicworld.com>  
**Sent:** Thursday, April 03, 2003 8:57 PM  
**Attach:** REDACTED  
**Subject:** the other two patents

4/15/2003

**INTERNATIONAL PATENT STRATEGIES** patent searching and drafting  
20 EAST DIAMOND AVENUE, SUITE 27  
GAITHERSBURG, MARYLAND 20877  
WIRELESS : 202.438.5378  
LANDLINE : 240.632.9422  
FACSIMILE : 240.632.2837  
ELECTRONIC MAIL: [ipkiller@bellatlantic.net](mailto:ipkiller@bellatlantic.net)  
[ip.drafter@verizon.net](mailto:ip.drafter@verizon.net)

March 25, 2003.

Mr. H.T. Than, Esquire  
The H.T. Than Law Group  
Sutton Executive Center, Suite 350  
3201 New Mexico Avenue, N.W.  
Washington, DC 20016

Re: Patentability Investigation for  
Fuel Cell Fuel Cartridge Outlet Valve  
CMN: BIC-016 / IPSN: 030319-1

Dear H.T.:

Pursuant to your request received by facsimile, March 19, 2003, a patentability search was undertaken to uncover any U.S. patents or applications on file related to the fuel cell fuel cartridge outlet valve as we discussed.

REDACTED

Exhibit D, Page 1

**H.T. Than**

---

**From:** "H.T. Than" <ht@htthan.com>  
**To:** "Cheryl Dubois" <Cheryl.Dubois@bicworld.com>; "Paul Adams" <Paul.Adams@bicworld.com>  
**Sent:** Wednesday, May 07, 2003 8:29 PM  
**Attach:** FUELCARTRIDGE WITH CONNECTING VALVE -- first draft.pdf  
**Subject:** BIC-016 first draft

Cheryl, Paul:

Attached for your review is the first draft of the patent application entitled "Fuel Cartridge with Connecting Valve" (Our Ref. BIC-016). This case is also known as the shut-off valve case. Please note that the claims are written in short-hand for easy reading. The informal drawings are attached at the end of the document.

REDACTED

Exhibit E, Page 1

**FAX TRANSMITTAL**

*If there is a problem with  
this transmittal, please call  
the number below.*

**Date:** 03-Jun-2003

**Total Pages:** 5 including cover

**Deliver to:** H.T. Than  
Attorney at Law

**Telephone:** 202-363-2620

**Facsimile:** 202-363-3490

**From:** Paul Adams

**Telephone:** 203-783-2652

**Facsimile:** 203-783-2213

**Message:**

Following our conversation.

**CONFIDENTIALITY NOTICE**

This facsimile message is confidential and may contain legally privileged information intended only for the use of the individual or company named above. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone, and return the original message to us at the address below.

BIC Corporation, 500 BIC Drive, Milford, Connecticut 06460 USA [www.bicworld.com](http://www.bicworld.com)

Exhibit E, Page 2

8-14-03

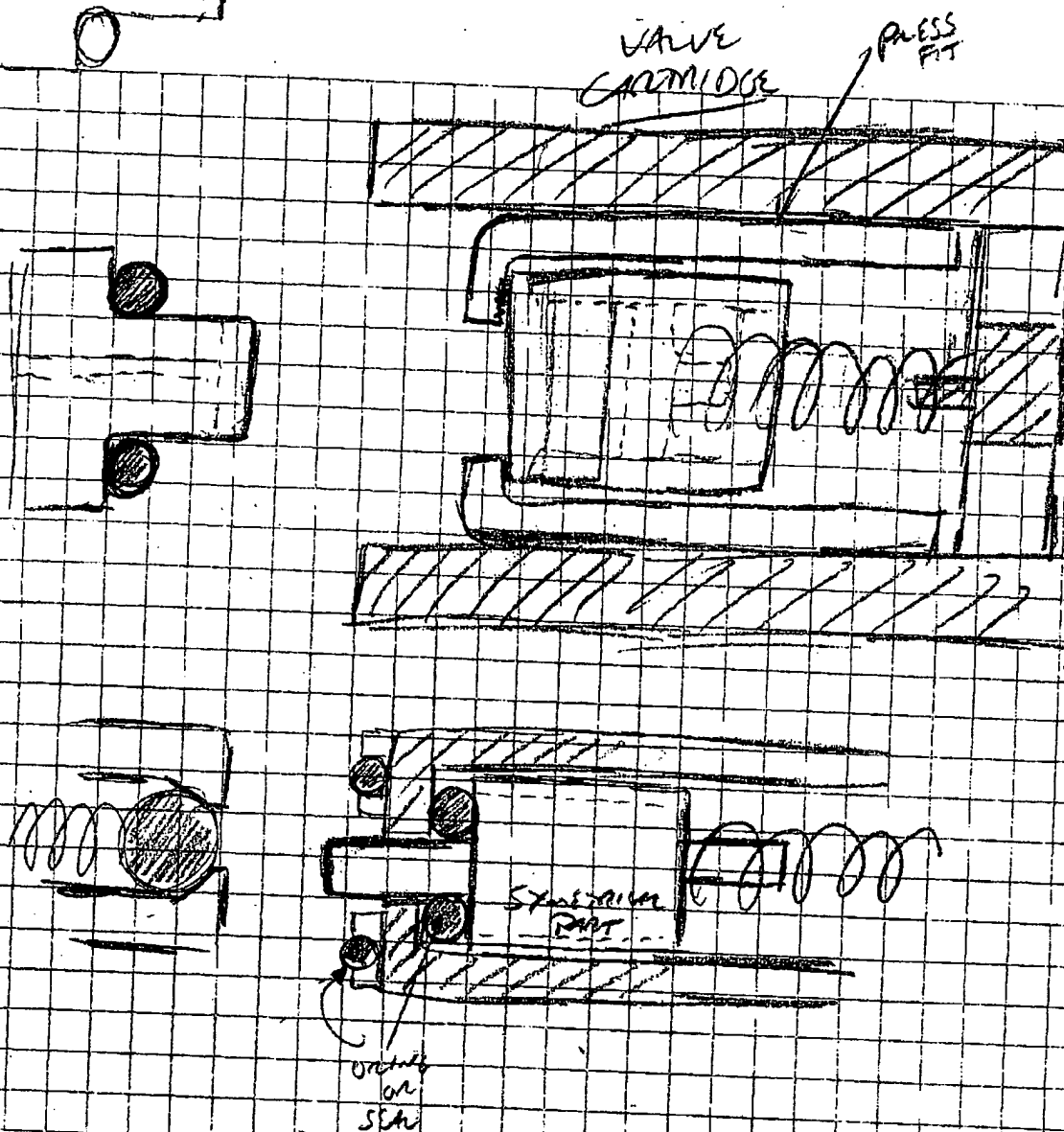


Exhibit E, Page 3

Q. MAY-03

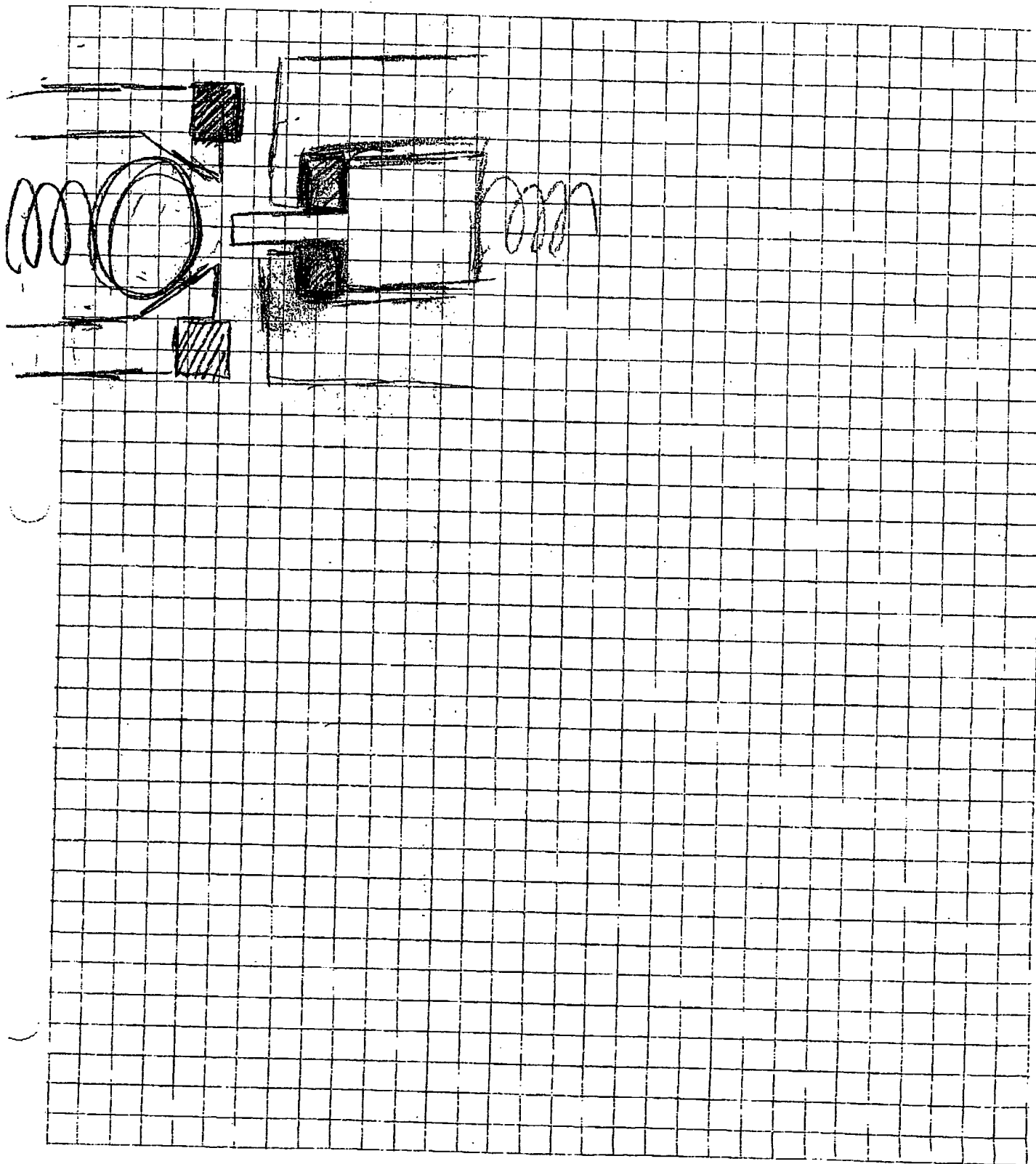
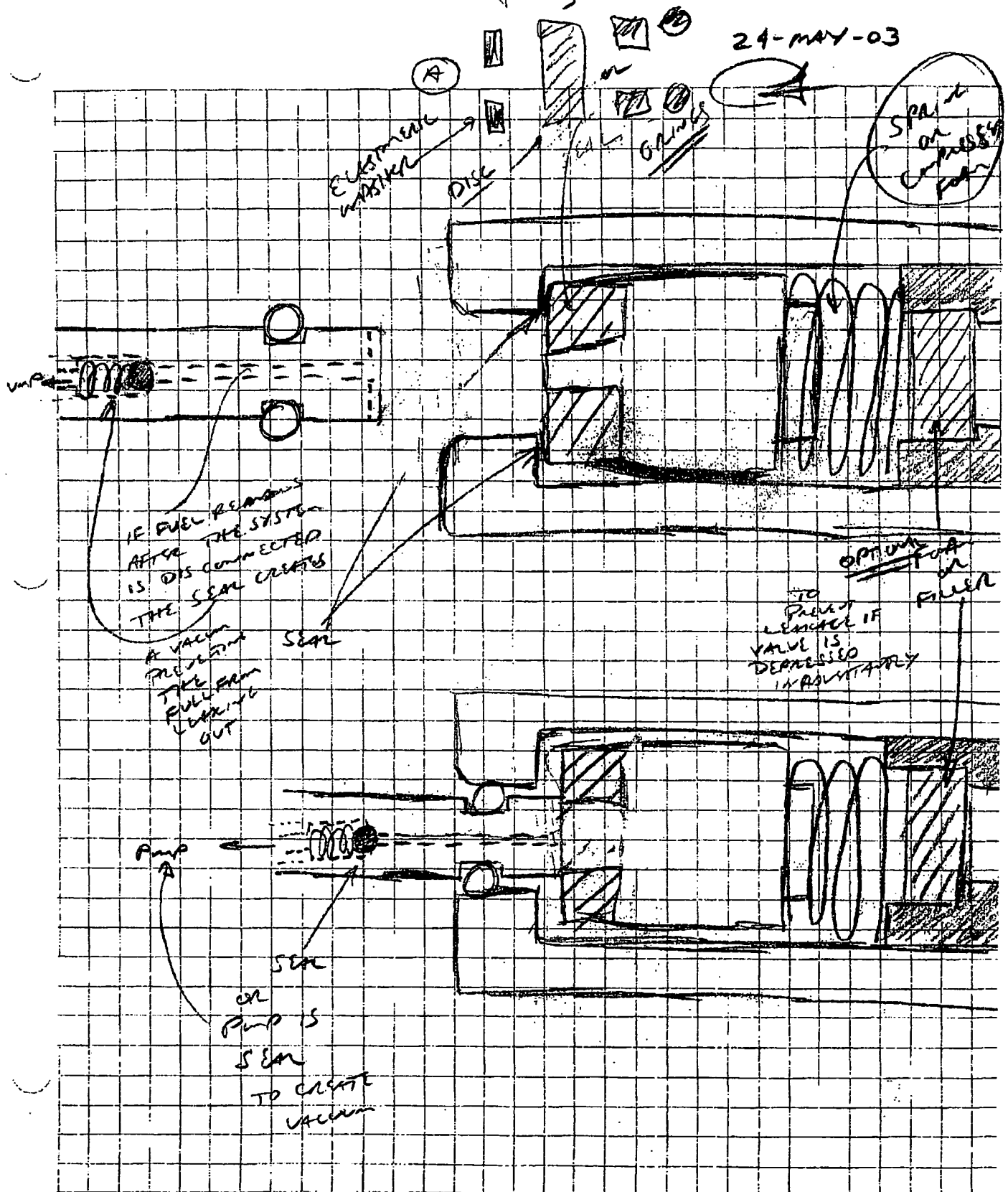




Exhibit E, Page 5  
POSSIBLE SENS

24-MAY-03



REDACTED

Exhibit E, Page 5

24-MAY-03

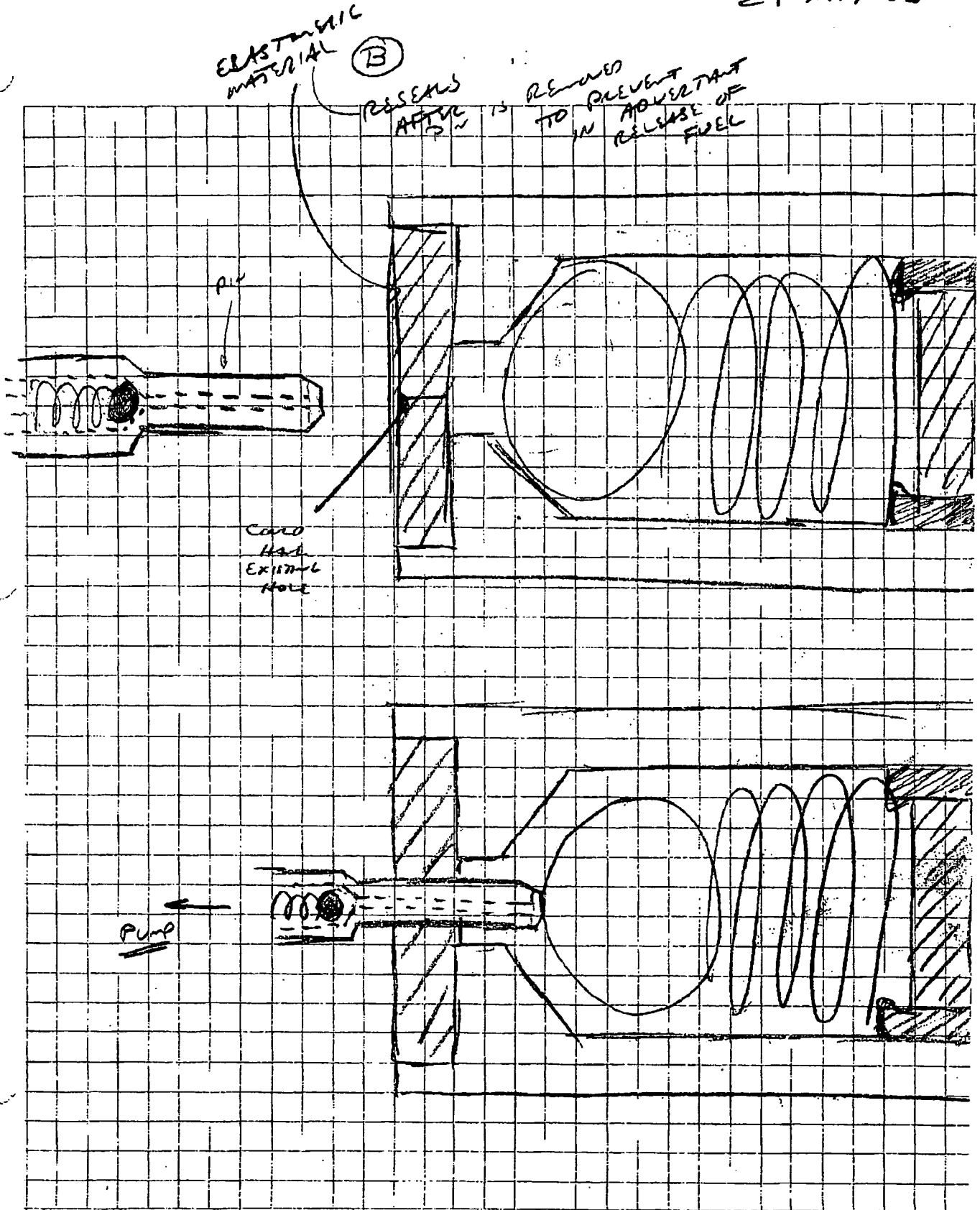


Exhibit E, Page 6

24-MAY-03

(C)

(A)

\* SPARK  
on  
compressed  
foam

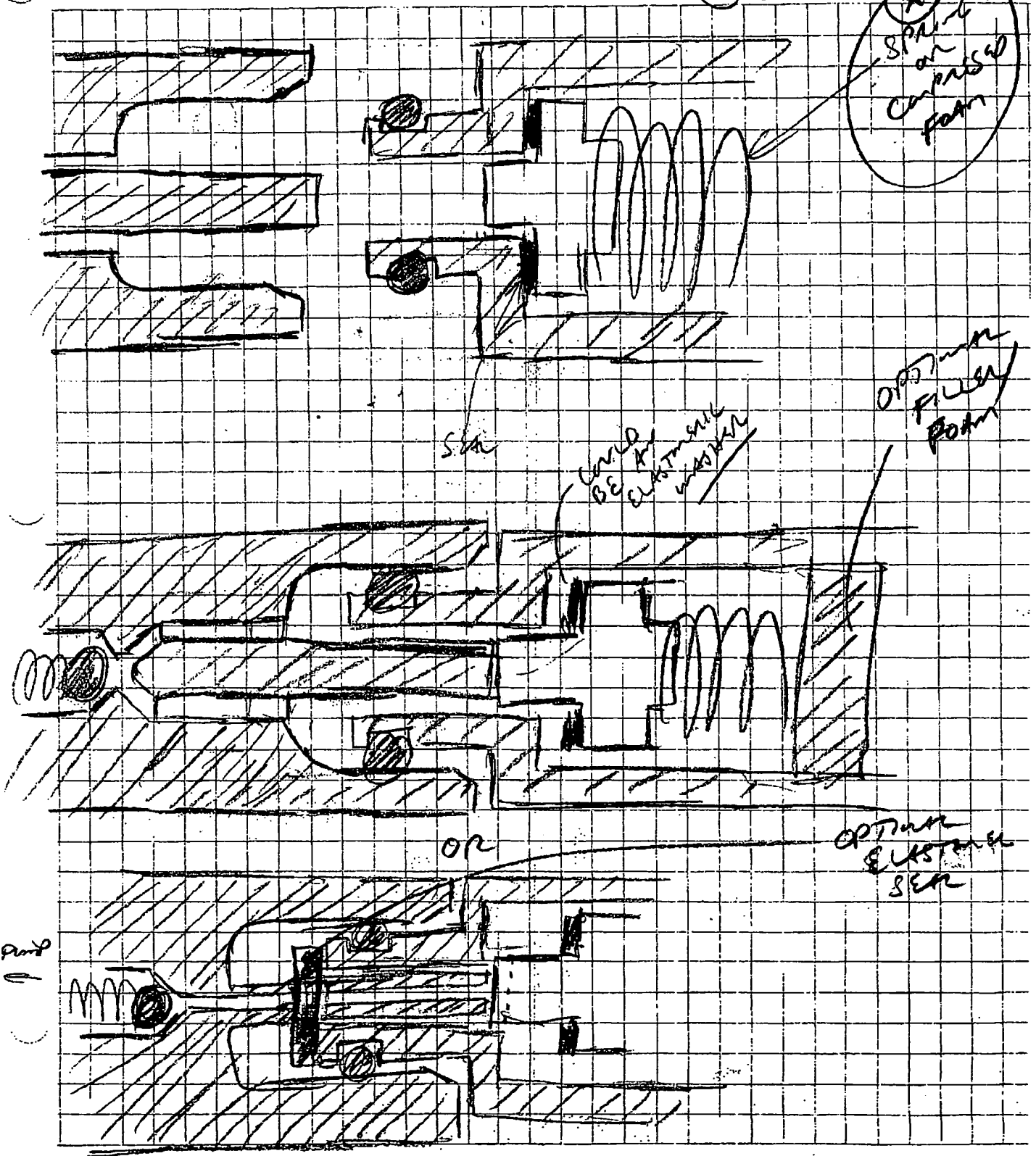


Exhibit E, Page 7

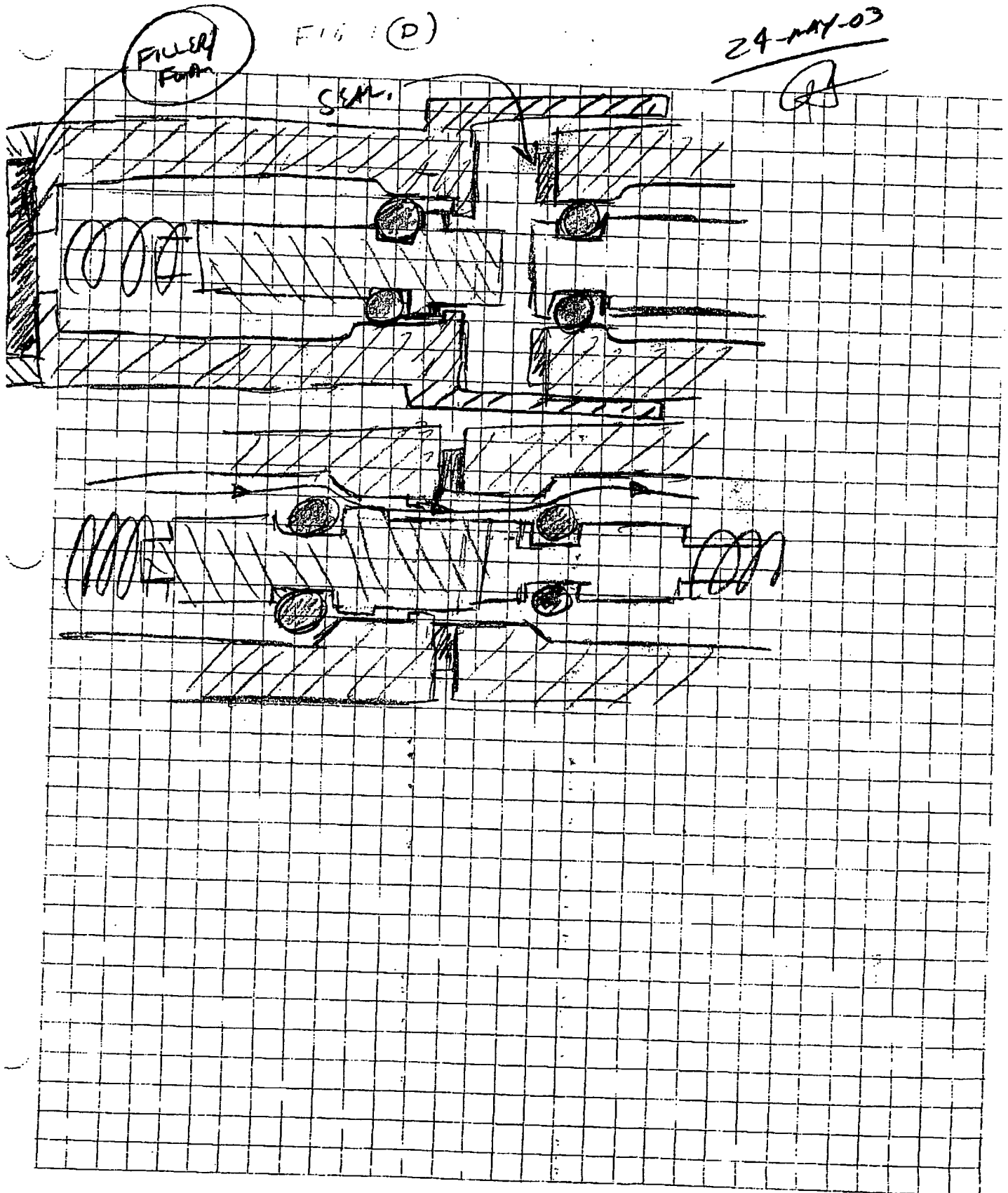


Exhibit E, Page 8

(E)

25-may-03  
A

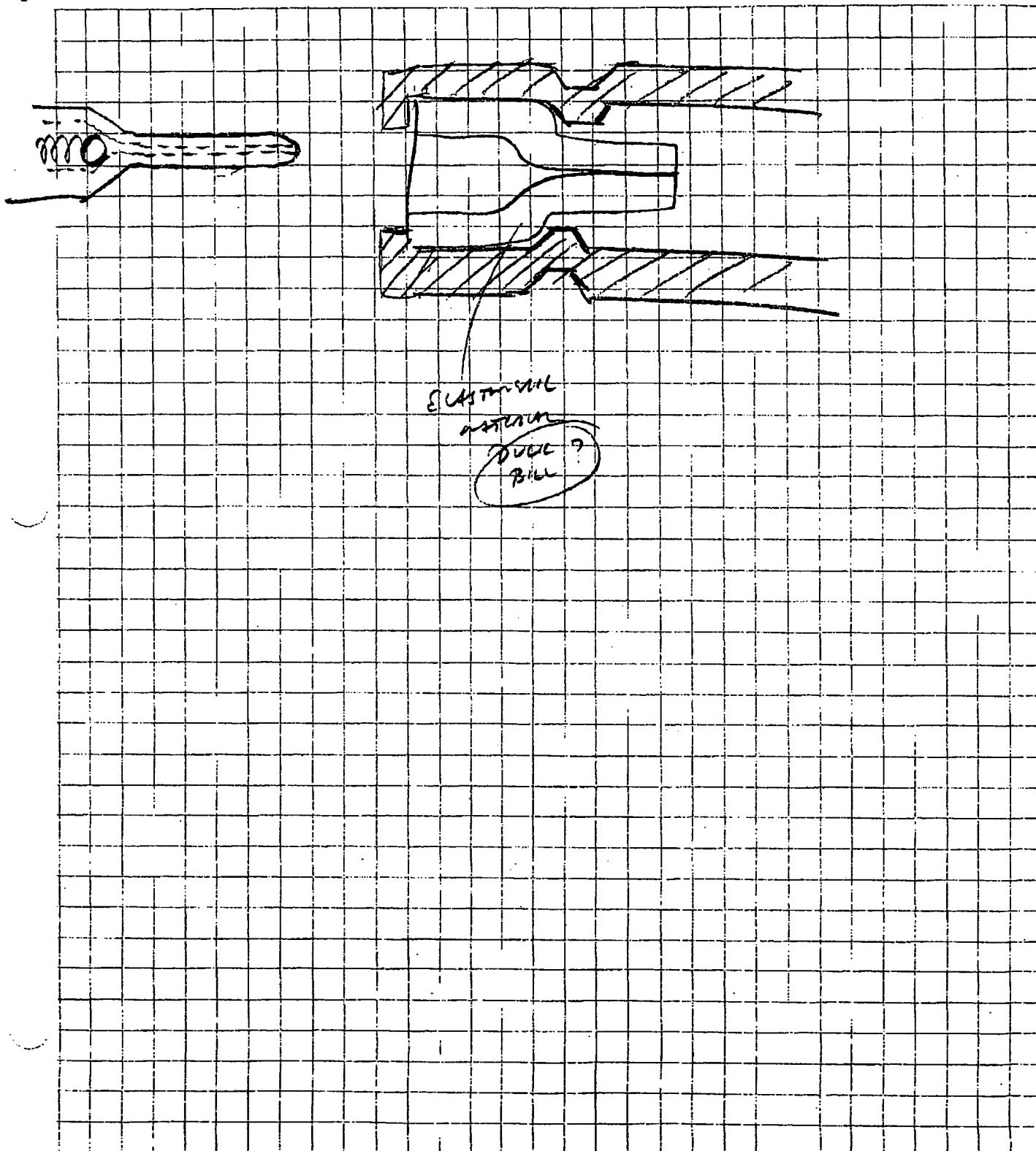


Exhibit E, Page 9

(F)

25-MAY-03

Pj

REDACTED

## SECTION ON IN ADJUSTANT RELEASE OF FUEL

- VALVE OR SHOLD COULD BE DESIGNED SUCH AS TO PREVENT THE ACCIDENTAL RELEASE OF FUEL THE FOLLOWING DESIGN MAY BE USED IN COMBINATION OR BY THEMSELVES.

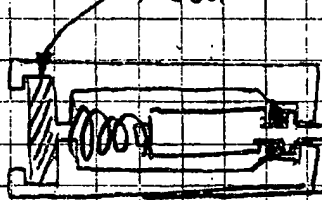
## 1) RECESS (Pgc)

page C



- AS DESIGNED A PERSON COULD NOT DEPRESS THE SEALING PORTION OF THE VALVE TO RELEASE FUEL BECAUSE OF DIA "A" & DEPTH "B" ARE SIZED SUCH THAT NO FINGER COULD REACH THE SEALING PORTION

## 2) FILLER/FOAM INSERT (Pg D)



- AS DESIGNED A PERSON COULD DEPRESS THE SEALING PORTION OF THE VALVE & OPEN THE VALVE. IN THIS CASE THE FILLER/FOAM INSERT WOULD PREVENT/MINIMIZE THE FLOW OF FUEL THROUGH THE RETENTION OF THE FUEL VIA CAPILLARY ACTION. IN USE THE FUEL WOULD BE PUMPED THROUGH THE FILLER/FOAM INTO THE DEVICE.

REDACTED

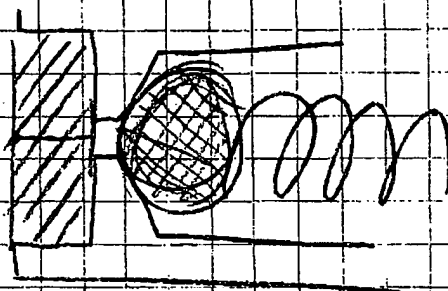
## Exhibit E, Page 10

(G)

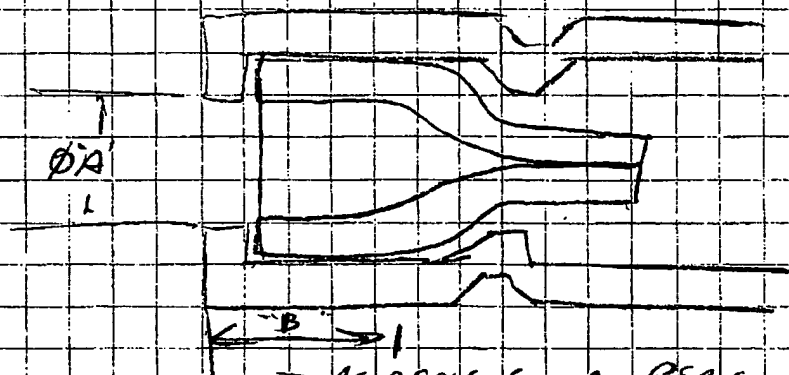
## 3) ELASTOMERIC MATERIAL (pg B)

- AS DESIGNED A PERSON COULD NOT REACH THE SEALING PORTION OF THE VALVE BECAUSE OF A INSERTED ELASTOMERIC MAT'L.

REDACTED



## 4) RECESSED ELASTOMERIC MATERIAL (pg E)

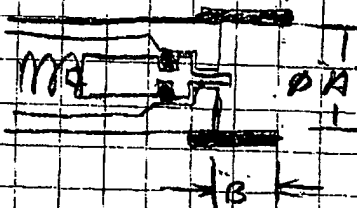


- AS DESIGNED A PERSON COULD NOT REACH THE SEALING PORTION OF THE VALVE BECAUSE OF THE SIZES OF 'A' & 'B'

## Exhibit E, Page 11

(H)

B) CIRCULAR



- AS DESIGNED A PERSON COULD NOT  
DEPRESS THE SEALING PORTION OF  
THE VALVE TO RELEASE FUEL  
BECAUSE DIA "A" & DEPTH "B"  
ARE SIZED SUCH THAT NO FINGER  
COULD REACH THE SEALING PORTION



Exhibit F, Page 1

**H.T. Than**

---

**From:** "H.T. Than" <ht@htthan.com>  
**To:** "Cheryl Dubois" <Cheryl.Dubois@bicworld.com>; "Paul Adams" <Paul.Adams@bicworld.com>  
**Sent:** Monday, June 09, 2003 4:57 PM  
**Attach:** FUELCARTRIDGE WITH CONNECTING VALVE – second draft.pdf  
**Subject:** BIC-016 second draft

Cheryl, Paul:

Attached for your review is the second draft of the patent application entitled "Fuel Cartridge with Connecting Valve." All new shut-off valve embodiments have been included. Due to the new technical disclosures, the claims remain in short hand format. The informal drawings are attached at the end of the document.

REDACTED

Exhibit G, Page 1

**H.T. Than**

---

**From:** "H.T. Than" <ht@htthan.com>  
**To:** "Cheryl Dubois" <Cheryl.Dubois@bicworld.com>; "Paul Adams" <Paul.Adams@bicworld.com>  
**Sent:** Monday, June 30, 2003 4:03 PM  
**Attach:** FUELCARTRIDGE WITH CONNECTING VALVE – third draft.pdf  
**Subject:** BIC-016 third draft

Cheryl and Paul:

Attached for your review is the third draft of "Fuel Cartridge with Connecting Valve," (Our Ref.: BIC-016). Paul's changes & comments have been incorporated. The drawings are informal, and formal drawings will be ready in about one-week to 10 days.

REDACTED

Exhibit H, Page 1

**H.T. Than**

---

**From:** "H.T. Than" <ht@htthan.com>  
**To:** "Cheryl Dubois" <Cheryl.Dubois@bicworld.com>; "Paul Adams" <Paul.Adams@bicworld.com>  
**Cc:** "Conlan, Sandy" <Sandy.Conlan@bicworld.com>  
**Sent:** Friday, July 25, 2003 10:33 AM  
**Attach:** FUELCARTRIDGE WITH CONNECTING VALVE -- fourth draft.pdf  
**Subject:** Fourth draft of BIC-016

Paul, Cheryl:

Attached is the fourth and final draft of BIC-016. Relevant changes are highlighted in yellow.  
The document is password protected. I will fax the password separately.

H.T. Than, Esq.  
3201 New Mexico Ave., N.W., Suite 350  
Washington, D.C. 20016  
Tel: 202-363-2620  
Fax: 202-363-3490  
[ht@htthan.com](mailto:ht@htthan.com)

REDACTED

=====

PLEASE NOTE: The information contained in this message is privileged and confidential, and is intended only for the use of the individual named above and others who have been specifically authorized to receive it. If you are not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, or if any problems occur with transmission, please contact sender at (202) 363-2620.

=====

## Exhibit I, Page 1

**H.T. Than**

---

**From:** "Adams, Paul" <Paul.Adams@bicworld.com>  
**To:** "H.T. Than" <ht@htthan.com>  
**Cc:** "Dubois, Cheryl" <Cheryl.Dubois@bicworld.com>  
**Sent:** Friday, July 25, 2003 5:58 PM  
**Subject:** RE: Fourth draft of BIC-016

No changes please file this.  
 Thanks,

Paul Adams  
 Manager - Lighter Manufacturing and Product Development  
 BIC USA INC.  
 GROUP CORPORATE - NYC  
 500 BIC Drive  
 Milford, CT 06460  
 Phone: (203) 783-2652  
 Fax: (203) 783-2213  
 Email: [paul.adams@bicworld.com](mailto:paul.adams@bicworld.com)

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-----Original Message-----

**From:** H.T. Than [mailto:[ht@htthan.com](mailto:ht@htthan.com)]  
**Sent:** Friday, July 25, 2003 10:33 AM  
**To:** Cheryl Dubois; Paul Adams  
**Cc:** Conlan, Sandy  
**Subject:** Fourth draft of BIC-016

Paul, Cheryl:

Attached is the fourth and final draft of BIC-016. Relevant changes are highlighted in yellow.  
 The document is password protected. I will fax the password separately.

H.T. Than, Esq.  
 3201 New Mexico Ave., N.W., Suite 350  
 Washington, D.C. 20016  
 Tel: 202-363-2620  
 Fax: 202-363-3490  
[ht@htthan.com](mailto:ht@htthan.com)

=====

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7/27/2003

Exhibit I, Page 2

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	BIC-016
First Inventor	Paul ADAMS
Title	Fuel Cartridge With Connecting Valve
Express Mail Label No.	EF391483825US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

- ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
- ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
- ☒ Specification [Total Pages 31]  
(Preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 13]
- Oath or Declaration [Total Pages 2]
  - ☒ Newly executed (original or copy)  
Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
  - ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76

- ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - ☐ Computer Readable Form (CRF)
  - Specification Sequence Listing on:
    - ☐ CD-ROM or CD-R (2 copies); or
    - ☐ paper
  - ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

- ☒ Assignment Papers (cover sheet & document(s))
- ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
- ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
- ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- ☒ Other: check

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_

Prior application information:

Examiner: \_\_\_\_\_

Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label



or ☐ Correspondence address below

Name	H.T. Than, Attorney-at-law				
Address	3201 New Mexico Avenue, NW Suite 350				
City	Washington	State	DC	Zip Code	20016
Country	USA	Telephone	202-363-2620	Fax	202-363-3490

Name (Print/Type)	H.T. Than	Registration No. (Attorney/Agent)	38,632
Signature		Date	7/29/2003

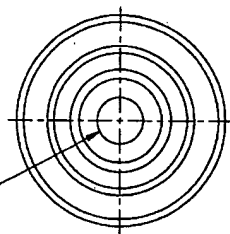
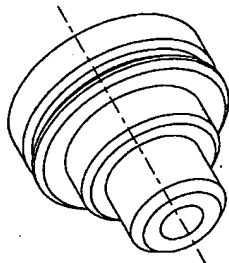
Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

EF 391483825 US



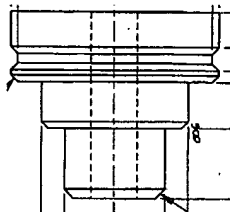
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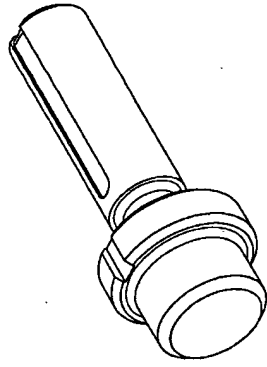
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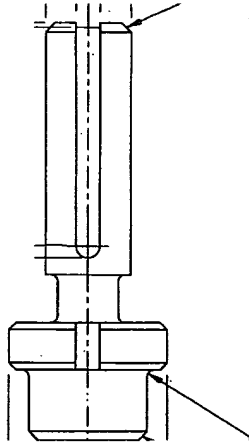




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REVISIONS				



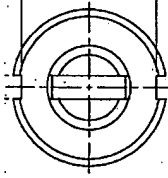
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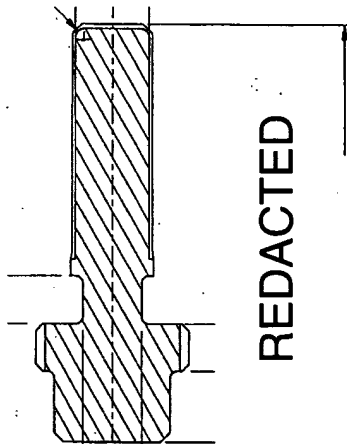
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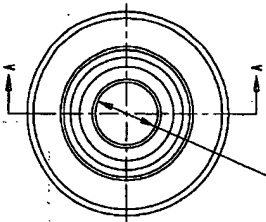
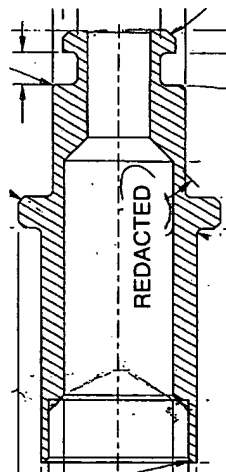
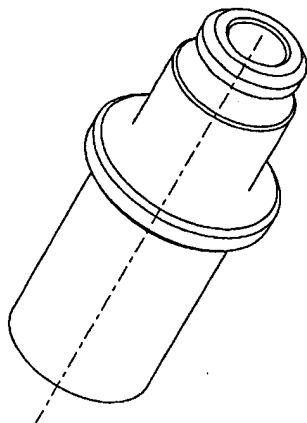
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H.T. Than

---

**From:** bsmith@cad-pdm1.bicmlfcad.com on behalf of Bob Smith [bsmith@cad-pdm1.na.bicworld.com]  
**Sent:** Tuesday, June 17, 2003 10:20 AM  
**To:** ht@htthan.com  
**Cc:** Curello, Andy  
**Subject:** Valve PDF files

**Attachments:** temp1.pdf; temp2.pdf; temp3.pdf



temp1.pdf (85 KB) temp2.pdf (85 KB) temp3.pdf (85 KB)

In temp1.pdf, the valve is shown with the plungers making initial contact. both valves are still closed.

In temp2.pdf, the valve on the left has a weaker spring than the valve on the right which causes it to open first.

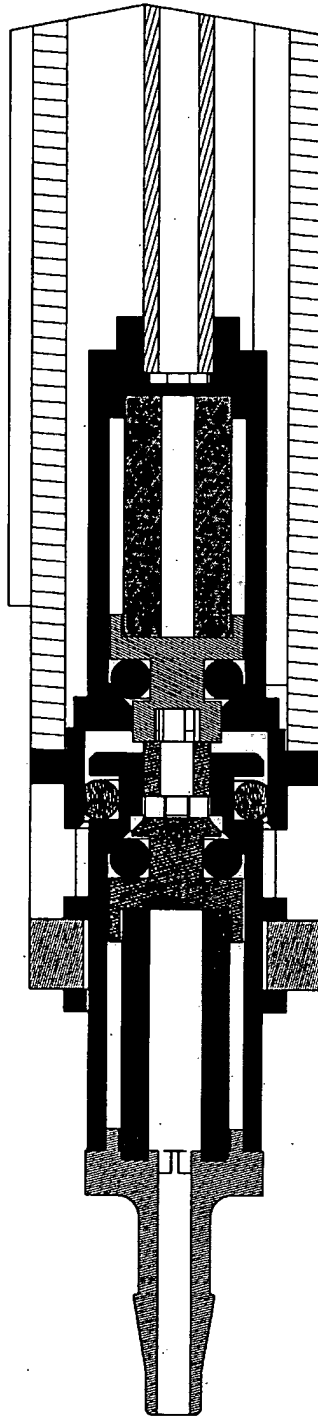
In temp3.pdf, as the valve on the left travels to full engagement, it causes the valve on the right to open.

If you need other info or have any questions about these pdf files, please contact Andy Curello. I can not receive incoming email.

--  
Bob Smith (Contractor)  
Bic Corporation  
500 Bic Drive  
Milford, CT

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REVISIONS		
SYM	ECN OR CHANGE	DATE
BY		



SECTION A-A  
SCALE 5:1

Exhibit L, Page 2

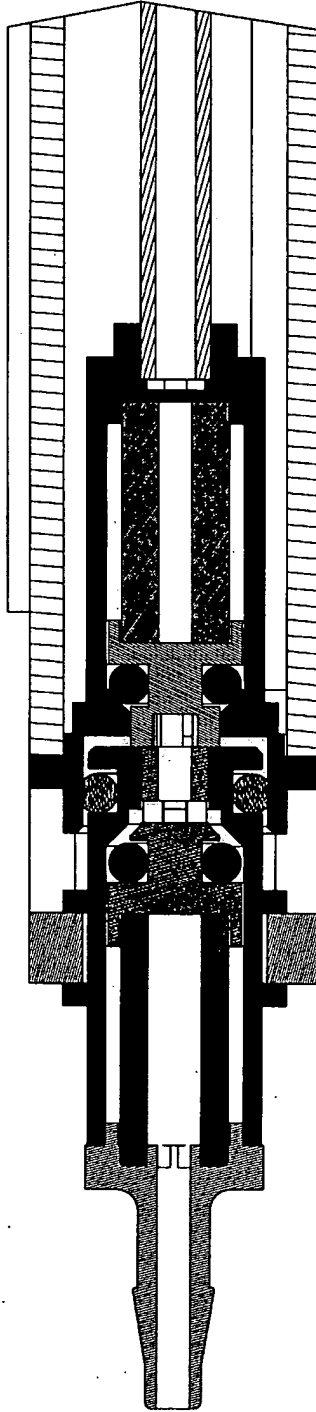
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DATE:	REF. NUM.	MATERIAL	BREAK ALL SHARP EDGES	DESIGN	BY	DATE	ASSEMBLY NAME		
CHG. #	ASSEMBLY	HARDNESS	IMPLIED MILLIMETER TOLERANCES	APPROV	BY	DATE	PART NAME		
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REVISIONS		
SYM	ECN OR CHANGE	DATE

BY

Exhibit L, Page 3



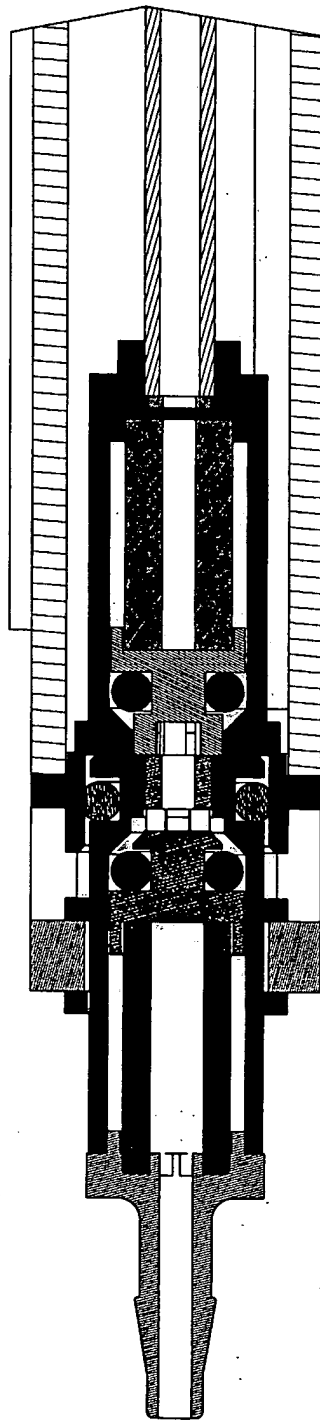
SECTION A-A  
SCALE 5:1

RELEASE		REF. NUM.		ALL DIMENSIONS ARE IN MILLIMETERS		3RD ANGLE PROJECTION		REQ'D		ON ASSEMBLY NUMBER	
DATE:		MATERIAL		BREAK ALL SHARP EDGES		BY		DATE		ASSEMBLY NAME	
CHG. #		HARDNESS		IMPLIED MILLIMETER TOLERANCES		DESIGN		DATE		PART NAME	
REQ'D:		FINISH		CONCENTRICITY:		APPROV		DATE		SCALE 1:2	
										DWG. NO.	
										B-TMP	
										REV.	

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**BIC CORPORATION**  
300 BIC DRIVE  
MILFORD, CT 06460 USA

REVIEWS		
SYM	ECN OR CHANGE	DATE BY



SECTION A-A  
SCALE 5:1

RELEASE	ALL DIMENSIONS ARE IN MILLIMETERS										3RD ANGLE PROJECTION	DATE	BY	DESIGN	CONCENTRICITY:	IMPLIED MILLIMETER TOLERANCES	BREAK ALL SHARP EDGES	REF. NUM.
DATE:																		
CHG. #																		
REQ'D:																		
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<p>REF. NUM. MATERIAL HARDNESS FINISH MARK DWG. NO. ON</p>																		
<p>APPROVED BY DATE PART NAME SCALE 1:2 SHT. NO. OF REV.</p>																		
<p>BIC CORPORATION 1000 BIC DRIVE MILWAUKEE, WIS. 53001 U.S.A.</p>																		



R43500

## Exhibit M, Page 1



Purchase Order Print

05/01/07

Page - 1

Order Number 361662 000 ON

Branch/Plant 73650

Shipped From HANNES PRECISION INDUSTRY, INC.  
12 PLEASANT STREET  
NORWALK CT 06855

Ship To BIC CORP. GATE 5, RECEIVING  
500 BIC DRIVE  
MILFORD CT 06460

Ordered	08/29/03	Freight			
Requested	08/29/03	Order Taken By		Currency Code	USD
Delivery	machine development			Base Currency	USD

Line	Rev	Description /Supplier Item	Ordered	UOM	Unit Price	PR UM	Extended Price	Request Date	Order No	Ty
1.000	0	INTPLUNG23MM 100pcs	1	EA		EA		08/29/03		
2.000	0	lightplung2 rev0 100pcs	1	EA		EA		08/29/03		
3.000	0	ENDCAP3MMSPMGPEEN rev0 100pcs	1	EA		EA		08/29/03		
4.000	0	capbarb3mm REV0 100pcs.	1	EA	REDACTED	EA	REDACTED	08/29/03		
5.000	0	MALEINLET rev0 100 pcs	1	EA		EA		08/29/03		
6.000	0	pressvalve2 rev0 100pcs.	1	EA		EA		08/29/03		
					Total Order					
					Sales Tax		Total Order			

Term Due Immediately Tax Rate

REDACTED